UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

## Bioinformatics and Biostatistics for Big Data - Winter School II

**2425-1002-07**

### Aims

To understand the different applications of bioinformatics on big data in medical research.

### Contents

Introduction to machine learning – 2h Daniela Besozzi
Unsupervised learning – 4h Daniela Besozzi
Supervised learning – 4h Daniele Papetti + 2h Daniela Besozzi
Interpretable and explainable artificial intelligence – 4h Marco Nobile
Bayesian and causal networks – 4h Fabio Stella

### Detailed program

### Prerequisites

### Teaching form

### Textbook and teaching resource

## Semester

November 14th 9.00-13.00 Daniela Besozzi - IN PRESENCE
November 14th 14.00-18.00 Daniele Papetti - IN PRESENCE
November 15th 9.00-13.00 Daniela Besozzi - IN PRESENCE
November 15th 14.00-18.00 Marco Nobile - IN PRESENCE
November 16th 9.00-13.00 Fabio Stella - IN PRESENCE

**COURSE EVALUATION:** November 30th 9.00-13.00

## Assessment method

Group assignment

## Office hours

## Sustainable Development Goals